

United States Environmental Protection Agency Washington, DC 20460

#### Notice of Arrival of Pesticides and Devices

Send Completed Form to Appropriate Regional Office Listed on the Reverse of this Form.

Nete: Board Instructions are various before completing form.					
Note: Read Instructions on reverse before completing form.	la Camplata	d by Imp	orter or Agent		
1. Name and Complete Address of Broker or Agent Phoenix Intl Freight Svcs Ltd 4250 N. Sam Houston Pkwy E, Ste 120 Houston, TX (ref: 22017)	e completed	2. Name Chen One	and Complete Address of I inova Inc. Park Dr. Ste 150 arch Triangle Park, Du		
Return Form to this Address			Return Form to this Add		
3. Name and Address or Shipper Cheminova A/S		4. EPA F	Registration Number 0-77		ucer Establishment No. 34-DEU-001
P. O. Box 9 Lemvig DK 7620			name of Product ss Herbicide		
7. Major Active Ingredients and Percentage of Each 75.0% Thi	ifensulfuron-	Methyl			
8. Unit Size 9. Quantity 10. Total Ne 8 x 10 oz Bottles/ctn 360 ctns 180		11. Country of Origin Germany			
12. Port of Entry 3901 Chicago		13, Carr	ier KLM AWB 074-55	582601	
14. Entry Number 15. Entry I 279–9975048-5	Date 3/3/2013	Info	ssert that information const ormation is shown in the ab	ove blocks nu	mbered: (Note:
17. Location of Goods for Examination after Importation Cheminova Inc. c/o Jacobson Whse, Des N	Moines IA	RIC	cks 4, 5, 6, 7 are not entitle	ed to CBI treat	ment-see Instructions)
18. Remarks					
I certify that the statements I have made on this form a knowingly false or misleading statement may be punis	Certifi and all attachme hable by fine or	ents therete	o are true, accurate, and co ent or both under applicab	omplete. I ack le law.	nowledge that any
19. Printed Name of Importer or Agent Telephone Phoenix Int Frt Svcs Ltd 281-2	Number 19-2999	20. Sign	nature of Importer or Agent		Date Signed
Marta Pena, atty in fact x1	.0918		72 22/23	) <u>.</u>	2/27/2013
Part II: To Be Comple	eted by U.S. I	Environi	nental Protection Ag	ency	, , , , , , , , , , , , , , , , , , , ,
Action to be taken by U.S. Customs Service				<del>-</del>	
	Inspection		Release shipment to o	~	er bond. Shipment must
Remarks					
Signature and Title of EPA Official	<del></del>				Date
Myhan A /ENFORCEMENT OX		F1(SR 3-1-13.			
Part III: To B	e Completed	by U.S.	Customs Service		
The information shown in Part I was compared with was handled as instructed by EPA in Part II. Any de should also be noted in "Remarks."					
Remarks					
Signature of District Director of Customs					Date

**\$EPA** 

United States Environmental Protection Agency Washington, DC 20460

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		Part I: To Be Complete	d b	y Im	npe	orter or Agent		· · · · · · · · · · · · · · · · · · ·
4250 N. Sam Houston Pkwy E, Ste 120			Name and Complete Address of Importer or Consignee Cheminova Inc. One Park Dr. Ste 150					
Houston, TX (ref: 2	.2017)			Res	ea	rch Triangle Park,Du	irham NC 2	27709
Return Form	to this Address					Return Form to this Ad	dress	
<ol><li>Name and Address of</li></ol>	r Shipper		4.	EPA	\ B	egistration Number	5. EPA Pro	oducer Establishment No.
Cheminova A/S				67760-77 082694-DEU-001				
P. O. Box 9			6,	Brar	nd	name of Product		
Lemvig DK 7620				Har	as	s Herbicide		
7. Major Active Ingredie	ents and Percentage of	Each 75.0% Thifensulfuron-	-Me	thyl	]			
8. Unit Size 8 x 10 oz Bottles/ctn	9. Quantity 360 ctns	10. Total Net Weight 1801 lb	11	. Coi	e יחומ	try of Origin Germany		-74. <u>-</u> 4
12. Port of Entry 3901 Chicago	***************************************		13	. Cai	urrie	er KLM AWB 074-55	582601	:
14. Entry Number 279-9975(	048-5	15. Entry Date 3/3/2013	16	16. I assert that information constituting Confidential Business Information is shown in the above blocks numbered: (Note: Blocks 4, 5, 6, 7 are not entitled to CBI treatment—see Instructions)				
17. Location of Goods f Cheminova li		nportation Vhse, Des Moines IA						
18. Remarks			1					
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19. Printed Name of Im		Telephone Number	1			ture of Importer or Agent	~~~~	Date Signed
Phoenix Int Frt Svcs	s Ltd	281-219-2999	-				<b>`</b>	
Marta Pena, atty in	fact	x10918		1	1	22/2/6	-	2/27/2013
	Part II: To I	Be Completed by U.S. I	Env	iron	ım	ental Protection Age	ency	
Action to be taken by U	.S. Customs Service	•						
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Other (Speci	fy)						·	
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Signature and Title of E	PA Official					, - <del>, - , - , - , - , - , - , - , - , -</del>		Date
The information of		rt III: To Be Completed					<u>-</u> -	· • • • • • • • • • • • • • • • • • • •
was handled as i	shown in Part I was connicted by EPA in Pacted in "Remarks."	mpared with the entry papers art II. Any deviations should	s for be b	this s rough	shi ht t	pment and no discrepand to the attention of EPA be	cies were not ofore releasin	ed. The shipment ig shipment and
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Signature of District Dir	rector of Customs	The state of the s						Date



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	F	art I: To Be Complete	d by	ılmı	oorter or Agent		
1. Name and Complete Address of Broker or Agent Phoenix Intl Freight Svcs Ltd 4250 N. Sam Houston Pkwy E, Ste 120 Houston, TX(ref: 22017)		Name and Complete Address of Importer or Consignee Cheminova Inc. One Park Dr. Ste 150 Research Triangle Park, Durham NC 27709					
	· · · · · · · · · · · · · · · · · · ·	<del> </del>		1030			7.00
Return Form to	this Address				Return Form to this Add		
3. Name and Address or	Shipper				Registration Number		lucer Establishment No.
Cheminova A/S				67760-77 082694-DEU-001			
P. O. Box 9			Brand name of Product     Harass Herbicide				
Lemvig DK 7620				Нага	iss herbicide		
7. Major Active Ingredie	nts and Percentage of	Each 75.0% Thifensulfuron-	Me	thyl			
8. Unit Size 8 x 10 oz Bottles/ctn	9. Quantity 360 ctns	10. Total Net Weight 1801 lb	11.	Соц	ntry of Origin Germany		
12, Port of Entry 3901 Chicago			13.	Car	rier KLM AWB 074-55	582601	
14. Entry Number 279-99750	)48-5	15. Entry Date 3/3/2013	16.	Inf	ssert that information const ormation is shown in the ab	ove blocks nu	mbered: (Note:
17. Location of Goods fo Cheminova Ir		nportation Vhse, Des Moines IA		Blocks 4, 5, 6, 7 are not entitled to CBI treatment—see Instructions)			
18. Remarks			1		•		
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		Certif on this form and all attachme	ents	there			nowledge that any
1	7	may be punishable by fine or	1				D-1- 0:1
19. Printed Name of Importer or Agent Phoenix Int Frt Svcs Ltd Telephone Number 281-219-2999		20	. Sig	nature of Importer or Agent		Date Signed	
Marta Pena, atty in		x10918			)	> .	2/27/2013
Trianca i cita, acci, in		Be Completed by U.S.	L Fnv	iron	mental Protection Ag	encv	
Action to be taken by U		Do completou by c.c.			moned i lococcomon reg		
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nelease Sill	Juneau Land	Detail for hispection			be held intact pending	inspection.	•
Other (Speci	fy)						
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Signature and Title of E	PA Official	1					Date
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was handled as		ompared with the entry paper eart II. Any deviations should					
Remarks							
Signature of District Di	rector of Customs	,					Date
						1	



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	P	art I: To Be Complete	d b	y Im	porte	r or Agent		
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Houston, TX (ref: 2	2017)		<u> </u>	Kese	earcn	Triangle Park,Du	rnam NC 2	27709
Return Form t	to this Address					eturn Form to this Ad	dress	·
<ol><li>Name and Address o</li></ol>	r Shipper		ı			ration Number		ducer Establishment No.
Cheminova A/S			67760-77 082694-DEU-001					
P. O. Box 9			6. Brand name of Product Harass Herbicide					
Lemvig DK 7620				Hara	ass He	erbicide		
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14. Entry Number 279-9975(	048-5	15. Entry Date 3/3/2013	16	Inf	formati	hat information const on is shown in the ab	ove blocks ni	umbered: (Note:
17. Location of Goods for Cheminova Ir		nportation /hse, Des Moines IA	]	Вн	OCKS 4,	, 5, 6, 7 are not entitle	ed to CBI trea	atment-see Instructions)
18. Remarks								
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certify that the st	atements I have made	Certifi on this form and all attachme			to are t	rue, accurate, and co	omplete. Lac	knowledge that any
knowingly false or	misleading statement r	nay be punishable by fine or	impi	risonn	nent or	both under applicab	le law.	
19. Printed Name of Im		Telephone Number	20	. Sig	mature	of Importer or Agent		Date Signed
Phoenix Int Frt Svcs		281-219-2999			2/27/2012			
Marta Pena, atty in		x10918	<u> </u>	ر مسدا .	24	436-	<u> </u>	2/27/2013
<u> </u>		Be Completed by U.S. I	∟nv	ironi	menta	al Protection Age	ency	
Action to be taken by U.	<u> </u>				п 🛭	talassa shinmant to r	oneianoo un	der bond. Shipment must
Release Ship	ment	Detain for Inspection				e held intact pending		der bond. Shipment must
Other (Speci	fy)							
Remarks						*	···· ·	
		COPY						
Signature and Title of E	PA Official	<u> </u>					.,	Date
	Par	rt III: To Be Completed	l by	U.S	. Cus	toms Service		
The information shown in Part I was compared with the entry papers for this shipment and no discrepancies were noted. The shipment was handled as instructed by EPA in Part II. Any deviations should be brought to the attention of EPA before releasing shipment and should also be noted in "Remarks."								
Remarks								
Signature of District Dir	rector of Customs		<del></del>	<del></del>				Date



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Return Form to this Address				Return Form to this Ad	dress	
3. Name and Address or Shipper Cheminova A/S				Registration Number		ucer Establishment No. 94-DEU-001
P. O. Box 9 Lemvig DK 7620		6,	Branc Hara	d name of Product ss Herbicide		
7. Major Active Ingredients and Percentage of I	 Each 75.0% Thifensulfuron-	Me	thyl			
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18. Remarks	•					
	Certifi	icati	on	1.1.1 · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
I certify that the statements I have made knowingly false or misleading statement r	on this form and all attachme	ents	there	to are true, accurate, and c ment or both under applicat	omplete. I ack ble law.	nowledge that any
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	Be Completed by U.S. I	Ėnv	iron	mental Protection Ag	encv	
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Release Shipment	Detain for Inspection			Release shipment to be held intact pending		er bond. Shipment must
Other (Specify)					<del></del>	
Remarks	COPY					
Signature and Title of EPA Official						Date
	rt III: To Be Completed					
The information shown in Part I was conwas handled as instructed by EPA in Pashould also be noted in "Remarks."						
Remarks						
Signature of District Director of Customs						Date



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A dry flowable herbicide for use on wheat, barley, oat, triticale, fallow, corn, soybeans, and as a preplant or postharvest herbicide.

#### **ACTIVE INGREDIENT:**

## CAUTION CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

IN CASE OF MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL TOLL FREE, DAY OR NIGHT 1-866-303-6950

Read the entire label before using this product.

See FIRST AID, PRECAUTIONARY STATEMENTS, and DIRECTIONS FOR USE on individual packages.

EPA Reg. No. 67760-77

EPA Est. No. 082694-DEU-001

NET CONTENTS: 8 x 10 oz

Manufactured for:
Cheminova, Inc.
One Park Drive, Suite 150
P.O. Box 110566
Research Triangle Park, NG 27709
www.cheminova.us.com





A dry flowable herbicide for use on wheat, barley, oat, triticale, fallow, corn, soybeans, and as a preplant or postharvest herbicide.

#### **ACTIVE INGREDIENT:**

## KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

## IN CASE OF MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL TOLL FREE, DAY OR NIGHT 1-866-303-6950

Read the entire label before using this product.
Use only according to label instructions.
Read "DISCLAIMER" before buying or using. If terms are not acceptable, return product unopened without delay.

SEE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND USE DIRECTIONS

EPA Reg. No. 67760-77 EPA Est. No. 082694-DEU-001

#### **NET CONTENTS: 10 oz**

Manufactured for: **Cheminova, Inc.**One Park Drive, Suite 150, P.O. Box 110566
Research Triangle Park, NC 27709
www.cheminova.us.com

**(CHEMINOVA** 

0/611/8

HARASS® is a trademark of Cheminova

HELPING YOU GROW

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS KEEP OUT OF REACH OF CHILDREN CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category chart.

#### Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants.
- Chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.
- · Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **USER SAFETY RECOMMENDATIONS:**

Users should:

 Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

A dry flowable herbicide for use on wheat, barley, oat, triticale, fallow, corn, soybeans, and as a preplant or postharvest herbicide.

#### **ACTIVE INGREDIENT:**

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(If you do not understand the label, find someone to explain it to you in detail.)

## IN CASE OF MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL TOLL FREE, DAY OR NIGHT 1-866-303-6950

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SEE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND USE DIRECTIONS

EPA Reg. No. 67760-77 EPA Est. No. 082694-DEU-001

**NET CONTENTS: 10 oz** 

Manufactured for: Cheminova, Inc.
One Park Drive, Suite 150, P.O. Box 110566
Research Triangle Park, NC 27709
www.cheminova.us.com

HARASS® is a trademark of Cheminova



0/G11/8

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS KEEP OUT OF REACH OF CHILDREN CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

#### **FIRST AID**

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-866-303-6950 for emergency medical treatment information.

#### STORAGE AND DISPOSAL

**Pesticide Storage:** Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place.

#### Pesticide Disposal:

#### Nonrefillable containers equal to or less than 5 gallons:

Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

#### Nonrefillable containers greater than 5 gallons:

Do not reuse or refill this container. Offer for recycling if available. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank and store rinsate for later use or disposal. Repeat this procedure two more times.

10022519 S/B 7-11-08 0/G11/8

#### **FIRST AID**

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-866-303-6950 for emergency medical treatment information.

#### **ENVIRONMENTAL HAZARDS**

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

#### STORAGE AND DISPOSAL

**Pesticide Storage:** Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place.

#### Pesticide Disposal:

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(continued)

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#### PESTICIDE HANDLING

- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks of spray equipment.
- Assure accurate measurement of pesticides by all operation employees.
- Mix only enough product for the job at hand.
- Avoid over-filling of spray tank.
- Do not discharge excess material on the soil or at a single spot in the field/grove or mixing/loading station.
- Dilute and agitate excess solution and apply at labeled rates/uses.
- Avoid storage of pesticides near well sites.
- When triple rinsing the pesticide container, be sure to add the rinsate to the spray mix.

#### **GENERAL INFORMATION**

HARASS is recommended for selective postemergence control of certain broadleaf weeds in wheat (including durum), barley, oat, triticale, post-harvest burndown, preplant burndown, fallow, corn and soybeans. HARASS is a dry flowable granule to be mixed in water or other recommended carrier and applied as a uniform broadcast spray. It is noncorrosive, nonflammable, nonvolatile and does not freeze.

## BIOLOGICAL ACTIVITY AND ENVIRONMENTAL CONDITIONS

Best results are obtained when HARASS is applied to young, actively growing weeds. The use rate will depend on weed spectrum and size of weed at time of application. The degree of control and duration of effect are dependent on rate used, sensitivity and size of target weed and environmental conditions at the time of and following application.

HARASS stops growth of susceptible weeds rapidly. However, typical symptoms of dying weeds (discoloration) may not be noticeable for 1-3 weeks after application (2-5 weeks for wild garlic) depending on the environmental conditions and weed susceptibility. Warm, moist conditions following treatment promote the activity of HARASS, while cold, dry conditions delay the activity. Weeds hardened-off by cold weather or drought stress will be less susceptible.

A vigorously growing crop will aid weed control by shading and providing competition for weeds. However, a dense crop canopy at time of application can intercept spray and result in reduced weed control. Weeds may not be adequately controlled in areas of thin crop stand or seeding skips.

Applications made to weeds that are in the cotyledon stage, larger than the size indicated, or to weeds under stress may result in unsatisfactory control.

HARASS may injure crops that are stressed from adverse environmental conditions (such as extreme temperatures or moisture), abnormal soil conditions, or cultural practices. In addition, different varieties of the crop may have differing levels of sensitivity to treatment with HARASS under otherwise normal conditions. Treatment of sensitive crop varieties may injure crops.

Weed control may be reduced if rainfall or snowfall occurs soon after application. Several hours of dry weather are needed to allow HARASS to be sufficiently absorbed by weed foliage.

To reduce the potential of crop injury in cereals, tank mix HARASS with 2,4-D (ester formulations perform best-see the "TANK MIXTURES" sections of this label) and apply after the crop is in the tillering stage of growth.

#### **DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- · Coveralls.
- Chemical-resistant gloves made of any waterproof material.
- Shoes plus socks.

Do not apply this product through any type of irrigation system.

HARASS should be used only in accordance with recommendations on this label or in separately published Cheminova recommendations.

Cheminova will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by Cheminova.

HARASS is recommended for use on wheat, barley, oat, triticale, fallow, corn, soybeans and as a preplant and/or post-harvest burndown herbicide in most states. Check with your state extension service or Department of Agriculture before use to be certain HARASS is registered in your state.

### CEREALS, FALLOW AND PREPLANT BURNDOWN

Miners lettuce

#### Weeds Controlled

Annual knawel Annual sowthistle Black mustard Bushy wallflower /Treacle mustard Carolina geranium Coast fiddleneck Common buckwheat Common chickweed\* Common groundsel Common lambsquarters Corn chamomile Corn spurry Cress (mouse-ear) Curly dock False chamomile Field pennycress Flixweed Green smartweed Kochia† Ladysthumb London rocket Mallow (little) Marshelder

Mouseear chickweed Pennsylvania smartweed Prostrate knotweed Redmaids Redroot pigweed Russian thistle†\* Scentless chamomile/mayweed Shepherdspurse Smallflower buttercup Stinking mayweed /Dogfennel **Swinecress** Tarweed fiddleneck Tumble/Jim Hill mustard Volunteer lentils Volunteer peas Volunteer sunflower\* Wild buckwheat\* Wild chamomile Wild garlic\* Wild mustard

#### Partial Control\*\*

Common cocklebur Common sunflower Cutleaf evening primrose Henbit Mallow (common) Prickly lettuce\* Tansymustard\* Wild radish\*

- \* See SPECIFIC WEED PROBLEMS in the Cereals section below for more information.
- \*\* Partial control: A visual reduction of weed population as well as a significant loss of vigor for individual weed plants. For better results, use 0.5 or 0.6 ounces HARASS per acre and include a tank mix partner such as 2,4-D, MCPA, bromoxynil (such as "Buctril," "Bison," Bronate," or "Bronate Advanced"), or dicamba (such as "Banvel"/"Clarity"), refer to the TANK MIXTURES section of this label.
- † Naturally occurring resistant biotypes of kochia, prickly lettuce and Russian thistle are known to occur. See the TANK MIXTURES and SPECIFIC WEED PROBLEMS sections of this label for additional details.

#### **FALLOW**

#### **Application Timing**

Apply HARASS in the spring, summer, or fall when the majority of weeds have emerged and are actively growing. (See the **CROP ROTATION** section of this label for additional information).

#### **Use Rates**

HARASS may be used as a fallow treatment for burndown of emerged weeds, in combination with other suitable registered fallow herbicides. (See the **Tank Mixtures In Fallow** section of this label for additional information.) Apply HARASS at 0.3 to 0.6 ounce per acre to fallow for control or partial control of the weeds listed above. Sequential treatments of HARASS may be made provided the total amount of HARASS applied does not exceed 1.0 ounce per acre.

#### Tank Mixtures In Fallow

HARASS, when used as a fallow treatment, should be tank mixed with other herbicides that are registered for use in fallow, including glyphosate (such as GLYFOS® or "Roundup"), "Landmaster II," "Fallow Master," "RT Master," glyphosate plus dicamba (such as "Banvel"/"Clarity"), 2,4-D (ester formulations work best), or dicamba (such as "Banvel"/"Clarity") alone.

#### PREPLANT BURNDOWN

#### **Application Timing**

For burndown of emerging weeds, broadcast applications of HARASS may be applied before wheat (including durum) barley, oat, triticale, soybeans and field corn plants emerge. Before planting any other crop (such as sugarbeets, canola, rice, or grain sorghum) apply HARASS as a burndown treatment at least 45 days prior to planting. (See the **CROP ROTATION** section of this label for additional information.)

Apply HARASS as burndown treatment in cotton when a majority of weeds have emerged. Allow at least 7 days after application before planting cotton. Allow at least 5 months between application of HARASS and cotton harvest.

#### **Use Rates**

HARASS may be used as a burndown treatment prior to planting any crop; or shortly after planting, but prior to emergence of, wheat (including durum), barley, oat, triticale, soybeans and field corn. (See **Application Timing** in this **PREPLANT BURNDOWN** section for restriction on planting intervals.)

Apply HARASS at 0.3 to 0.6 ounce per acre for control or partial control of the weeds listed below, except when planting to cotton where HARASS can be applied at 0.2 to 0.33 ounce per acre. Use the 0.6 ounce per acre rate when weed infestation is heavy and predominantly consists of those weeds listed under the **WEEDS PARTIALLY CONTROLLED** section of this label, or when application

timing and environmental conditions are marginal. Sequential treatments of HARASS may also be made provided the total amount of HARASS applied during one season does not exceed 1.0 ounce per acre.

HARASS should be applied in combination with other suitable registered preplant burndown herbicides. (See **Tank Mixtures in Preplant Burndown Applications** section of this label for additional information.)

#### **Tank Mixtures in Preplant Burndown Applications**

HARASS may be used as a preplant burndown treatment alone or tank mixed with other herbicides that are registered for use as a preplant burndown product, including glyphosate (such as GLYFOS or "Roundup"), "Landmaster II," "Fallow master," "RT Master," glyphosate plus dicamba (such as "Banvel"/"Clarity") or dicamba (such as "Banvel/"Clarity") alone.

#### **CEREALS**

#### APPLICATION TIMING

#### Wheat (including Durum), Barley, Triticale and Winter Oat

Make applications after the crop is in the 2-leaf stage, but before the flag leaf is visible.

#### Spring Oat

Make applications after the crop is in the 3-leaf stage, but before jointing. Do not use on "Ogle," "Porter" or "Premier" varieties since crop injury can occur.

#### **USE RATES**

In cereals, do not use less than 0.3 ounce HARASS per acre.

If predominant weed(s) in field is (are) listed in **WEEDS PARTIALLY CONTROLLED** table below, always include a tank mix partner (refer to **TANK MIXTURES FOR CEREALS**).

#### Wheat, Barley and Triticale

Apply 0.5 ounce HARASS per acre to wheat (including durum), barley or triticale for control or partial control of the weeds listed below.

Use 0.6 ounce HARASS per acre when weed infestation is heavy and predominantly consists of those weeds listed under partial control, or when application timing and environmental conditions are marginal (refer to the CEREALS APPLICATION TIMING and GENERAL INFORMATION sections of this label).

Use 0.3 ounce HARASS per acre when weed infestation is light and predominantly consists of those weeds listed under weeds controlled, and when optimum application conditions occur.

Sequential treatments of HARASS may be made provided the total amount of HARASS applied to the crop does not exceed 1.0 ounce per acre.

#### Oat (Spring and Winter)

Apply 0.3 to 0.4 ounce HARASS per acre for control of the weeds listed in **WEEDS CONTROLLED** table.

If predominant weed(s) in field is (are) listed in **WEEDS PARTIALLY CONTROLLED** table below, always include a tank mix partner (refer to **TANK MIXTURES FOR CEREALS**).

Do not make more than one application of HARASS per crop season on oat.

#### SPECIFIC WEED PROBLEMS

**Common chickweed and wild buckwheat:** For best results, apply a minimum of 0.5 ounce HARASS per acre plus surfactant when all or the majority of weeds have germinated and are past the cotyledon stage. Weeds should be less than 3 inches tall or across at the time of HARASS application.

**Kochia:** Naturally occurring biotypes resistant to HARASS are known to occur. For best results, use HARASS in a tank mix with "Starane", "Starane"+"Salvo", "Starane"+ "Sword", dicamba (such as "Banvel"/"Clarity") and 2,4-D or MCPA (ester or amine), or bromoxynil containing products (such as "Buctril," "Bison," "Bronate," "Bronate Advanced" or "Widematch").

HARASS should be applied in the spring when kochia are less than 2" tall and are actively growing (refer to the **TANK MIXTURES FOR CEREALS** section of this label for additional details on rates and restrictions).

**Tansymustard:** For best results, use 0.5 to 0.6 ounce HARASS per acre plus 2,4-D or MCPA. Refer to the **TANK MIXTURES FOR CEREALS** section of this label for more information.

Russian thistle, Prickly lettuce: Naturally occurring biotypes of these weeds resistant to HARASS are known to occur. For best results, use HARASS in a tank mix with dicamba (such as "Banvel"/"Clarity") and 2,4-D or MCPA (ester or amine); or bromoxynil containing products (such as "Buctril," "Bison," "Bronate," "Bronate Advanced" or "Rhino") and 2,4-D [3/4-1 pint "Buctril" + 1/4 – 3/8 lb active 2,4-D ester].

HARASS should be applied in the spring when Russian thistle and prickly lettuce are less than 2" tall or 2" across and are actively growing (refer to the **TANK MIXTURES FOR CEREALS** section of this label for additional details on rates and restrictions).

Wild garlic: For best results, apply 0.5 to 0.6 ounce HARASS per acre plus surfactant when wild garlic plants are less than 12 inches tall with 2 to 4 inches of new growth. For severe infestations, use the 0.6 ounce per acre rate of HARASS. Control may be reduced when plants are hardened-off by cold weather and/or drought stress. Control is enhanced when applications are made during warm temperatures to actively growing wild garlic plants. Typical symptoms of dying wild garlic plants (discoloration and collapse) may not be noticeable for 2-5 weeks.

Thorough coverage of all garlic plants is essential.

Tank mixes of HARASS plus metribuzin may result in reduced control of wild garlic.

**Wild radish:** For best results, apply 0.5 to 0.6 ounce HARASS plus surfactant either in the fall or spring to wild radish rosettes less than 6 inches in diameter. Applications made later than 30 days after weed emergence will result in partial control. Fall applications should be made prior to hardening-off of plants.

**SU/IMI Tolerant Volunteer Sunflowers:** Control may not be adequate because varieties resistant to SU and IMI products (like "Express", "Beyond," "Pursuit," "Raptor") are under development. For best results, use HARASS in a tank mix with "Starane", "Starane"+"Salvo", "Starane"+"Sword", dicamba (such as "Banvel"/"Clarity") and 2,4-D or MCPA (ester or amine), or bromoxynil containing products (such as "Buctril," "Bison," "Bronate" or "Bronate Advanced").

#### TANK MIXTURES FOR CEREALS

NOTE: Read and follow all manufacturers' label recommendations for any companion herbicides, fungicides, and/or insecticides. If those recommendations conflict with this label, do not tank mix that product with HARASS. Read and follow all label instructions on timing, precautions, and warnings for any companion products before using these tank mixtures. Follow the most restrictive labeling.

With 2,4-D (amine or ester) or MCPA (amine or ester) HARASS may be tank mixed with the amine and ester formulations 2,4-D and MCPA herbicides for use on wheat, barley, oat, triticale or fallow.

For best results in the Red River Valley and adjacent areas of North Dakota and Minnesota, add the ester formulations of 2,4-D or MCPA herbicides to the tank at 3/8 lb active ingredient (such as ¾ pint of a 4 lb/gal product, ½ pint of a 6 lb/gal product). No additional surfactant is needed with this mixture.

For best results in other areas, add the ester formulations of 2,4-D or MCPA herbicides to the tank at 1/4 to 3/8 lb active ingredient (such as 1/2-3/4 pint of a 4 lb/gal product, 1/3-1/2

pint of a 6 lb/gal product). Nonionic surfactant may be added to the mixture at 1/2 to 1 quart per 100 gal of spray solution (0.125 to 0.25% v/v); however, adding nonionic surfactant may increase the potential for crop injury, especially at the higher 2,4-D and MCPA rates. Higher rates of 2,4-D or MCPA may be used, but do not exceed the highest rate allowed by those respective labels. **READ NOTE above for general precautions with tank mix products**.

#### With dicamba (such as "Banvel"/"Clarity")

HARASS may be tank mixed with 1/16 to 1/8 lb active ingredient dicamba (such as 2-4 fluid ounces "Banvel" or 2-4 fluid ounces "Clarity"). Use higher rates when weed infestation is heavy. Nonionic surfactant may be added to the mixture at ½ to 1 quart per 100 gallons of spray solution (0.125 to 0.25% v/v); however, adding nonionic surfactant may increase the potential for crop injury. Refer to the specific dicamba label for application timing and restrictions. Tank mixes of HARASS plus dicamba may result in reduced control of some broadleaf weeds. **READ NOTE above for general precautions with tank mix products**.

#### With 2,4-D (amine or ester) and "Banvel"/"Clarity"

HARASS may be applied in a 3-way tank mix with formulations of dicamba and 2,4-D or MCPA. Make application of HARASS plus 1/16 to 1/8 lb active ingredient dicamba (such as 2-4 fluid ounces "Banvel" or "Clarity") plus 1/4 — 3/8 lb active ingredient 2,4-D or MCPA ester or amine per acre. Use higher rates when weed infestation is heavy. Nonionic surfactant may be added to the mixture at ½ to 1 quart per 100 gal of spray solution (0.125 to 0.25% v/v); however, adding nonionic surfactant may increase the potential for crop injury. Apply this three-way combination to winter wheat and winter oat after the crop is tillering and prior to jointing (first node). **READ NOTE above for general precautions with tank mix products**.

In Spring Wheat (including Durum) and Spring Oat, apply after the crop is tillering and before it exceeds the 5-leaf stage. In Spring Barley, apply after the crop is tillering and before it exceeds the 4-leaf stage.

### With Bromoxynil containing products (such as "Buctril," "Bison," "Bronate," "Bronate Advanced" or "Rhino)

HARASS may be tank mixed with bromoxynil containing herbicides registered for use on wheat, barley or triticale. For best results, add bromoxynil containing herbicides to the tank at 3/16 – 3/8 lb active ingredient per acre (such as "Bronate" or "Bison" at 3/4 –1 1/2 pt per acre). Note that tank mixes of HARASS plus bromoxynil may result in reduced control of Canada thistle. **READ NOTE above for general precautions with tank mix products**.

## With "Starane," "Starane+Salvo," "Starane"+"Sword" For improved control of kochia (2-4" tall) HARASS may be tank mixed with 1/3 to 1 1/3 pints per acre of "Starane", 2/3 to 2 2/3 pints per acre of "Starane"+"Salvo", 3/4 to 2 3/4 pints per acre of "Starane"+"Sword".

2,4-D and MCPA herbicides (preferably ester formulations) may be tank mixed with HARASS plus "Starane". Consult local recommendations and the **TANK MIXTURES FOR CEREALS** section of this label for additional information. **READ NOTE above for general precautions with tank mix products**.

#### With "Maverick"

HARASS can be tank mixed with "Maverick" herbicide for improved control of weeds in wheat. **READ NOTE above for general precautions with tank mix products**.

#### With "Aim"

HARASS can be tank mixed with "Aim" herbicide for improved control of weeds in wheat and barley. **READ NOTE** above for general precautions with tank mix products.

#### With "Stinger" or "Curtail" or "Curtail M" or "Widematch"

HARASS can be tank mixed with "Stinger" or "Curtail" or "Curtail M" or "WideMatch" herbicide for improved control of weeds in wheat and barley. **READ NOTE above for general precautions with tank mix products**.

#### With "Express" or "Express XP"

HARASS may be tank mixed with "Express" or "Express XP" based on local recommendations. **READ NOTE above for general precautions with tank mix products**.

### With Cheminova ACCURATE® herbicide or "Ally" or "Ally XP"

HARASS may be tank mixed with ACCURATE or "Ally" or "Ally" XP based on local recommendations. **READ NOTE** above for general precautions with tank mix products.

#### With "Assert" Herbicide or "Avenge" Herbicide

HARASS can be tank mixed with "Avenge" or "Assert." When tank mixing HARASS with "Assert," always include another broadleaf weed herbicide with a different mode of action (for example 2,4-D ester, MCPA ester, or bromoxynil (such as "Buctril," "Bison," "Bronate" or "Bronate Advanced"). Applications of HARASS plus "Assert" may cause temporary crop discoloration, stunting, or injury when heavy rainfall occurs shortly after application. **READ NOTE above for general precautions with tank mix products**.

#### With "Discover NG"

HARASS can be tank mixed with "Discover NG" herbicide for improved control of weeds in spring wheat. **READ NOTE** above for general precautions with tank mix products.

#### With "Everest"

HARASS can be tank mixed with "Everest" herbicide for improved control of weeds in spring wheat. **READ NOTE** above for general precautions with tank mix products.

#### With "Hoelon"

A tank mix of "Hoelon" 3EC herbicide + HARASS can be applied for annual ryegrass (in the Pacific Northwest only), wild oat and broadleaf weed control in winter and spring wheat, and spring barley. The "Hoelon" 3EC herbicide rate should be 2 2/3 pints per acre with up to 0.5 ounce per acre HARASS in spring and winter wheat. **READ NOTE above for general precautions with tank mix products**.

A three-way tank mix of "Hoelon" 3EC herbicide + "Buctril" herbicide + HARASS can be applied for annual ryegrass (in the Pacific Northwest only), wild oat and broadleaf weed control in winter and spring wheat, and spring barley. The "Hoelon" 3EC herbicide rate should be 2 2/3 pints per acre with up to 0.5 ounce per acre HARASS in winter wheat (up to 0.4 ounce per acre in spring wheat and spring barley). "Buctril" herbicide should be used at 1 pint per acre.

This tank mixture should only be used under good soil moisture conditions when wild oats are in the 1 to 4 leaf stage. Reduced control of foxtail is likely when tank mixing "Hoelon" with HARASS. When foxtail is the major grass weed in the field, DO NOT tank mix "Hoelon" 3EC herbicide+HARASS — use sequential treatments. READ NOTE above for general precautions with tank mix products.

#### With "Achieve"

HARASS can be tank mixed with "Achieve" for wild oat control. This tank mix may also include 2,4-D ester, MCPA ester, bromoxynil or bromoxynil/MCPA for greater spectrum of broadleaf control — see "Achieve" label for specific use directions and restrictions on tank mixes.

To minimize the reduction in wild oat control, use the higher rates of "Achieve" when using rates of HARASS greater than 0.3 ounce per acre.

Note: Green foxtail, yellow foxtail, Persian darnel and other grass weeds will not be controlled by this tank mix.

### READ NOTE above for general precautions with tank mix products.

#### With "Puma"

HARASS can be tank mixed with "Puma" 1EC for control of some annual grass weeds. This tank mix may also include MCPA ester, bromoxynil or bromoxynil /MCPA for greater spectrum of broadleaf control — see "Puma" 1EC label for specific use directions and restrictions on tank mixes. **READ NOTE above for general precautions with tank mix products**.

#### With "Tiller"

HARASS can be tank mixed with "Tiller" for green foxtail, foxtail millets and volunteer corn control. **READ NOTE above for general precautions with tank mix products**.

#### With Other Grass Control Products

HARASS can be tankmixed with grass control products. Antagonism generally does not occur. However, Cheminova recommends that you first consult your state experiment station, university, extension agent or agricultural dealer as to the potential for antagonism before using the mixture. If no information is available, limit the initial use of HARASS and the grass product to a small area. **READ NOTE above for general precautions with tank mix products**.

#### With Fungicides

HARASS may be tank mixed or used sequentially with fungicides registered for use on cereal grains. **READ NOTE** above for general precautions with tank mix products.

#### With Insecticides

HARASS may be tank mixed or used sequentially with insecticides registered for use on cereal grains.

However, under certain conditions (drought stress, cold weather, or if the crop is in the 2-4 leaf stage), tank mixes or sequential applications of HARASS with organophosphate insecticides (such as "NUFOS®" or "Lorsban") may produce temporary crop yellowing or, in severe cases, crop injury. The potential for crop injury is greatest when wide fluctuations in day/night temperatures occur just prior to or soon after application. Test these mixtures in a small area before treating large areas.

Do not apply HARASS within 60 days of crop emergence where an organophosphate insecticide has been applied as an in-furrow treatment because crop injury may result. **READ NOTE above for general precautions with tank mix products.** 

Do not use HARASS plus malathion because crop injury will result.

#### With Liquid Nitrogen Solution Fertilizer

Liquid nitrogen fertilizer solutions may be used as a carrier in place of water. Run a tank mix compatibility test before mixing HARASS in fertilizer solution.

HARASS must first be slurried with water and then added to liquid nitrogen solutions (e.g., 28-0-0, 32-0-0). Ensure that the agitator is running while HARASS is added. Use of this mixture may result in temporary crop yellowing and stunting.

If using low rates of liquid nitrogen fertilizer in the spray solution (less than 50% of the spray solution volume), the addition of surfactant is necessary. Add surfactant at  $\frac{1}{2}$  pint – 1 quart per 100 gal of spray solution (0.06-0.25%  $\frac{1}{2}$  v/v) based on local recommendations.

When using high rates of liquid nitrogen fertilizer in the spray solution, adding surfactant increases the risk of crop injury. Consult your agricultural dealer, consultant, field advisor or Cheminova representative for a specific recommendation before adding an adjuvant to these tank mixes.

If 2,4-D or MCPA is included with HARASS and the fertilizer mixture, ester formulations tend to be more compatible (see manufacturer's label). Additional surfactant may not be needed when using HARASS in tank mix with 2,4-D ester or MCPA ester and liquid nitrogen fertilizer solutions. Consult your agricultural dealer, consultant, field advisor, or Cheminova representative for a specific recommendation before adding an adjuvant to these tank mixtures.

Note: In certain areas east of the Mississippi River, unacceptable crop response may occur with use of straight or dilute nitrogen fertilizer carrier solutions where cold temperatures or widely fluctuating day/night temperatures exist. In these areas consult your agricultural dealer, consultant, field advisor, or Cheminova representative for a specific recommendation before using nitrogen fertilizer carrier solutions.

Liquid nitrogen fertilizer solutions that contain sulfur can increase crop response.

Do not use low rates of liquid fertilizer as a substitute for a surfactant.

Do not use with liquid fertilizer solutions with a pH less than 3.0.

READ NOTE above for general precautions with tank mix products.

#### **SOYBEANS**

#### **Application Timing (Postemergence)**

HARASS may be applied to soybeans any time after the first trifoliate has expanded fully. Apply no later than 60 days before harvest.

Early-season soybean injury may result from tank mix applications with other registered herbicides. Injury may manifest itself as stunting (seen as a reduction in leaf size or internode length), yellowing leaves and/or red veins, and necrosis in the leaves and petioles. The potential for soybean injury is most pronounced with applications made during hot, humid conditions, under widely fluctuating weather or temperature conditions, or with applications to soybeans under stress.

#### **Use Rates in Soybeans**

Make a single application of HARASS at a rate of 0.083 (1/12) ounce per acre for selective postemergence broadleaf weed control on conventional soybean varieties.

HARASS at up to 1/3 ounce per acre is recommended for use on soybeans designated "STS." Severe injury or death to soybeans will result if any soybeans not designated as "STS" are treated with more than 1/12 ounce of HARASS. Multiple applications of HARASS may be applied to "STS" soybeans provided no more than a total of 1/3 ounce is applied per season.

#### Spray Additives

Applications of HARASS in soybeans must include a nonionic surfactant or crop oil concentrate, and an ammonium nitrogen fertilizer. See **SPRAY ADJUVANTS** section of this label.

#### **Weeds Controlled**

When applied to soybeans as directed, HARASS will control the following weeds:

Weeds Controlled	Maximum Size (inches) at Application
Annual Smartweeds	6
Lambsquarters	4
Pigweed	
Rough (red root)	12
Other species	8
Velvetleaf	6
Wild Mustard	Up to 4" in dia.

Partial Control*	Maximum Size (inches) at Application
Cocklebur	6
Jimsonweed	4
Wild Sunflower	6

<sup>\*</sup>Partial Control: A visual reduction of weed population as well as a significant loss of vigor for individual weeds.

See WEEDS CONTROLLED in the CEREALS, FALLOW AND PREPLANT BURNDOWN section for a listing of weeds controlled using applications of 1/3 oz of this product in "STS" soybeans.

#### **Tank Mixtures in Soybeans**

HARASS may be tank mixed with full or reduced rates of other products registered for use in soybeans. However, Cheminova will not warrant crop safety or weed control of HARASS tank mixtures with any other pesticide or spray adjuvant except as specified in this label or other Cheminova supplemental labeling or technical bulletins.

Do not tank mix HARASS with organophosphate insecticides, or apply HARASS within 14 days before or after an application of an organophosphate insecticide, as severe crop injury may occur.

#### With Postemergence Grass Herbicides

HARASS may be tank mixed with postemergence herbicides such as "SELECT" or "ASSURE® II."

With postemergence grass herbicides, surfactant rate (concentration) should be 1-2 pints per 100 gallons of spray solution (0.125%-0.25% v/v concentration). Use of a higher rate of nonionic surfactant, particularly under hot, humid conditions, may result in temporary crop injury. Do not use crop oil concentrate when tank mixing HARASS with postemergence grass herbicides unless specified on other Cheminova supplemental labeling. Include a nonionic surfactant with the tank mix of HARASS and post grass herbicides such as "SELECT" or "ASSURE II" herbicides.

#### With Glyphosate

HARASS may be tank mixed with glyphosate for control of certain broadleaf weeds in "Roundup Ready" or "Roundup Ready" X "STS stacked trait" soybeans. For tank mixtures of HARASS plus glyphosate herbicide, always read and follow all use directions, restrictions, and precautions on the EPA approved labels. When tank mixing, the most restrictive labeling applies.

#### Adjuvants

When tank mixing HARASS with glyphosate, such as GLYFOS, it is recommended to add ammonium sulfate (AMS) at 4.25-17 lb per 100 gal of spray mixture. See the glyphosate manufacturer's label for specific ammonium nitrogen recommendations. When velvetleaf is present, ammonium sulfate is required at a minimum rate of 2 lb per acre.

The addition of surfactant at 0.125-0.25% v/v (1-2 pt per 100 gal spray mixture) to some HARASS plus glyphosate tank mixes will improve weed control when glyphosate products are used that do not contain built-in adjuvant systems. Glyphosate products differ in their adjuvant contents. Glyphosate products such as GLYFOS or "Roundup" Original allow for addition of surfactants. See the manufacturer's specific surfactant recommendations.

#### **Sequential Applications in Soybeans**

Before making applications of HARASS to soybeans previously treated with other herbicides, ensure that the soybeans are free from stress (herbicide or environmental) and actively growing.

#### FIELD CORN

Do not apply to sweet corn, popcorn or field corn grown for seed.

Do not apply this product through any type of irrigation systems.

Do not graze or feed forage or grain from treated field corn to livestock within 30 days of application.

#### Restriction

This product is limited to ground application only in the State of New York. Do not apply by air in that state.

#### **Application Information**

HARASS may be applied to 2-6 leaf field corn (1-5 collars, up to 16 inches tall) at a rate of 0.083 (1/12) ounce per acre. Do not apply to field corn taller than 16 inches or 5 collars, whichever is more restrictive.

HARASS may be applied as a tank mixture with labeled rates of atrazine and glyphosate. Do not tank mix with other corn herbicides unless specified on HARASS labels or technical bulletins.

Apply HARASS to field corn hybrids with Relative Maturity (RM) of 88 days or more, including "food grade" (yellow dent, hard endosperm), waxy and high-oil corn. Not all field corn hybrids of less than 88 days RM, not all white corn hybrids or Hi-Lysine hybrids have been tested for crop safety, nor does Cheminova have access to all seed company data. Consequently, injury arising from the use of HARASS on these types of corn is the responsibility of the user. Consult with your seed supplier before applying HARASS to any of these corn types.

Do not make more than one application per season.

#### Timing to Weeds

Apply to weeds whose first true leaves are expanded but before weeds exceed the sizes listed below.

When applied as directed, HARASS will control the following weeds:

WEED	Maximum Size (Inches)
Velvetleaf	6
Pigweed species	12
Lambsquarters	4
Annual smartweeds	6
Wild mustard	up to 4" in diameter

#### **Adjuvants**

Always add either nonionic surfactant at 0.25% v/v (1 qt/100 gal) or crop oil concentrate at 1% v/v (1 gal/100 gal) plus either ammonium nitrogen solution such as 28% UAN (2-4 qt/acre) of ammonium sulfate (2-4 lb.acre).

When tank mixing HARASS with glyphosate, it is recommended to add ammonium sulfate (AMS) at 4.25-17 lb per 100 gal of spray mixture. See the glyphosate manufacturer's label for specific ammonium nitrogen recommendations. When velvetleaf is present, ammonium sulfate is required at a minimum rate of 2 lb per acre.

The addition of surfactant at 0.125-0.25% v/v (1-2 pt per 100 gal spray mixture) to some HARASS plus glyphosate tank mixes will improve weed control when glyphosate products are used that do not contain built-in adjuvant systems. Glyphosate products differ in their adjuvant contents. Glyphosate products such as GLYFOS or "Roundup" Original allow for addition of surfactants. See the manufacturer's specific surfactant recommendations.

#### Soil Insecticide Interactions

HARASS may interact with certain insecticides previously applied to the crop. Crop response varies with field corn type, insecticide used, insecticide application method, and soil type.

HARASS may be applied to corn previously treated with "Fortress," "Aztec," "Force" or non-organophosphate (OP) soil insecticides regardless of soil type.

- DO NOT APPLY HARASS to corn previously treated with Counter 15G.
- Applications of HARASS to corn previously treated with "Counter 20CR," NUFOS®, "Lorsban" or "Thimet" may cause unacceptable crop injury, especially on soils of less than 4% organic matter.
- Applications of HARASS to corn previously treated with NUFOS® or "Lorsban," or other organophosphate insecticides not listed above, may result in temporary crop injury.

#### **POST HARVEST**

#### **Application Timing**

HARASS may be used as a burndown treatment to crop stubble when the majority of weeds have emerged and are actively growing. (See the **CROP ROTATION** section of this label for additional information.)

#### **Use Rates**

Apply HARASS at 0.3 to 0.6 ounce per acre to crop stubble after harvest. Use the 0.6 ounce per acre rate when weed infestation is heavy and predominantly consists of those weeds listed under the **WEEDS PARTIALLY CONTROLLED** section of this label or when application timing and environmental conditions are marginal. (See the **CROP ROTATION** section of this label for restriction on planting intervals). HARASS should be applied in combination with other suitable registered burndown herbicides (see the **Tank Mixtures in Post Harvest Applications** section of this label for additional information).

Sequential treatments of HARASS may also be made provided the total amount of HARASS applied during one fallow/preplant cropland season does not exceed 1.0 ounce per acre.

#### **Tank Mixtures in Post Harvest Applications**

HARASS may be used as a post harvest treatment to crop stubble, and should be tank mixed with other herbicides that are registered for use in fallow, such as GLYFOS.

## GENERAL USE AND APPLICATION DIRECTIONS – ALL CROPS AND USES

#### **GROUND APPLICATION**

For best performance, select nozzles and pressure that deliver MEDIUM spray droplets. Nozzles that deliver COARSE spray droplets may be used to reduce drift, provided spray volume is increased to maintain coverage on small weeds. For optimal product performance and minimal spray drift, adjust the spray boom to the lowest possible spray height recommended in manufacturers' specifications.

Overlaps or starting, stopping, slowing, and turning while spraying may result in crop injury.

#### Wheat, Barley, Oat, Triticale, Post-Harvest Burndown, Preplant Burndown And Fallow

For flat-fan nozzles, use a spray volume of at least 5 gal per acre (GPA).

For flood nozzles on 30" spacings, use at least 10 GPA, flood nozzles no larger than TK10 (or the equivalent), and a pressure of at least 30 psi. For 40" nozzle spacings, use at least 13 GPA; for 60" spacings use at least 20 GPA. It is essential to overlap the nozzles 100% for all spacings.

"Raindrop RA" nozzles are not recommended for HARASS applications, as weed control performance may be reduced.

Use screens that are 50-mesh or larger.

#### Corn And Soybeans

#### **Broadcast Application**

Use 10-25 gallons of water per acre.

Ensure that equipment is set up to avoid applying an excessive rate directly over the rows and into the corn plant whorl. Overlaps or starting, stopping, slowing, and turning while spraying may result in crop injury.

Under heavy weed pressure or dense crop foliage, increase minimum spray volume to 15-25 gal per acre.

#### **Band Application**

For band applications, use proportionately less spray mixture.

To avoid crop injury, carefully calibrate the band applicator to not exceed the labeled rate.

Carefully follow the manufacturer's instructions for nozzle type (flat fans), orientation, distance of nozzles from the crop and weeds, spray volumes, calibration and spray pressure.

#### **AERIAL APPLICATION**

Do not apply during a temperature inversion, when winds are gusty, or when conditions favor poor coverage and/or off-target spray movement.

In wheat, barley, oats, triticale, post-harvest burndown, preplant burndown and fallow use 2 to 5 gallons per acre; use at least 3 gallons per acre in Idaho, Oregon and Utah.

In corn and soybeans, use a minimum of 5 gallons per acre. Do not apply by air in New York State.

When applying HARASS by air in areas adjacent to sensitive crops, use solid stream nozzles oriented straight back. Adjust the swath to avoid spray drift damage to sensitive crops downwind and/or use ground equipment to treat the border edge of fields. See the Spray Drift Management section of this label.

#### SPRAY ADJUVANTS

Always include a spray adjuvant with applications of HARASS. In addition to a spray adjuvant, an ammonium nitrogen fertilizer may be used. Do not use low rates of liquid nitrogen fertilizer solution as a substitute for surfactant. Antifoaming agents may be used if needed.

Consult your Ag dealer or applicator prior to using an adjuvant system. If another herbicide is tank mixed with HARASS, select adjuvants authorized for use with both products. Products must contain only EPA-exempt ingredients (40 CFR 1001).

#### **Nonionic Surfactants (NIS)**

- Apply 0.06 to 0.50% volume/volume (1/2 pt to 4 pt per 100 gal of spray solution).
- Surfactant products must contain at least 60% nonionic surfactant with a hydrophilic/lipophilic balance (HLB) greater than 12. See the TANK MIXTURES sections of this label for additional information.

# **Crop Oil Concentrate (COC)** — Petroleum or Modified Seed Oil (MSO)

- Apply at 1% v/v (1 gal per 100 gal spray solution) or 2% under arid conditions. MSO adjuvants may be used at 0.5% v/v if specified on local Cheminova product literature or service policies.
- Oil adjuvants must contain at least 80% high quality, petroleum (mineral) or modified vegetable seed oil with at least 15% surfactant emulsifiers.

# **Special Adjuvant Types**

 Combination adjuvant products may be used at doses that provide the required amount of NIS, COC, MSO and/or ammonium nitrogen fertilizer. Consult adjuvant product literature for use rates and restrictions.

# **Ammonium Nitrogen Fertilizer**

 Use 2 qt/acre of a high-quality urea ammonium nitrate (UAN), such as 28%N or 32%N, or 2 lb/acre of a spraygrade ammonium sulfate (AMS). Use 4 qt/acre UAN or 4 lb/acre AMS under arid conditions.

#### **CROP ROTATION**

Wheat, barley, oat, triticale, soybeans and field corn may be replanted anytime after the application of HARASS. Cotton can be planted 7 days after application. Any other crop may be planted 45 days after the application of HARASS.

#### **GRAZING**

Do not graze or feed forage or hay from treated areas to livestock (harvested straw may be used for bedding and/ or feed).

#### MIXING INSTRUCTIONS

Do not use with spray additives that after the pH of the spray solution below pH 5.0 or above pH 9.0, as rapid product degradation can occur. Spray solutions of pH 6.0-8.0 allow for optimum stability of HARASS.

- 1. Fill the tank 1/4 to 1/3 full of water.
- 2. While agitating, add the required amount of HARASS.
- 3. Continue agitation until the HARASS is fully dispersed, at least 5 minutes.
- 4. Once the HARASS is fully dispersed, maintain agitation and continue filling tank with water. HARASS should be thoroughly mixed with water before adding any other material.
- 5. As the tank is filling, add tank mix partners and antifoaming agents (if desired) then add the required volume of spray adjuvant. Always add spray adjuvant last. Do not use with spray additives that alter the pH of the spray solution below pH 6.0 as rapid product degradation can occur. Spray solutions of pH 7.0 and higher allow for optimum stability of HARASS.
- 6. If the mixture is not continuously agitated, settling will occur. If settling occurs, thoroughly re-agitate before using.
- 7. Apply HARASS spray mixture within 24 hours of mixing to avoid product degradation.
- 8. If HARASS and a tank mix partner are to be applied in multiple loads, pre-slurry the HARASS in clean water prior to adding to the tank. This will prevent the tank mix partner from interfering with the dissolution of the HARASS.

#### **SPRAY EQUIPMENT**

For specific application equipment, refer to the manufacturer's recommendations for additional information on GPA, pressure, speed, nozzle types and arrangements, nozzle heights above the target canopy, etc.

Be sure to calibrate air or ground equipment properly before application. Select a spray volume and delivery system that will ensure thorough coverage and a uniform spray pattern with minimum drift. Use higher spray volumes to obtain better coverage when crop canopy is dense. Avoid

swath overlapping, and shut off spray booms while starting, turning, slowing, or stopping, to avoid injury to the crop. Do not make applications using equipment and/or spray volumes or during weather conditions that might cause spray to drift onto nontarget sites. For additional information on spray drift refer to the SPRAY DRIFT MANAGEMENT section of this label. Continuous agitation is required to keep HARASS in suspension.

#### SPRAYER CLEANUP

The spray equipment must be cleaned before HARASS is sprayed. Follow the cleanup procedures specified on the labels of the previously applied products. If no directions are provided, follow the six steps outlined in the AFTER SPRAYING HARASS section of this label.

#### At the End of the Day

It is recommended that during periods when multiple loads of HARASS are applied, at the end of each day of spraying the interior of the tank be rinsed with fresh water and then partially filled, and the boom and hoses flushed. This will prevent the buildup of dried pesticide deposits which can accumulate in the application equipment.

# AFTER SPRAYING HARASS AND BEFORE SPRAYING CROPS OTHER THAN WHEAT, BARLEY, OAT, TRITICALE, FIELD CORN AND SOYBEANS

To avoid subsequent injury to desirable crops, thoroughly clean all mixing and spray equipment immediately following applications of HARASS as follows:

- Drain tank; thoroughly rinse spray tanks, boom, and hoses with clean water. Loosen and physically remove any visible deposits.
- 2. Fill the tank with clean water and 1 gal of household ammonia\* (contains 3% active ingredient) for every 100 gal of water. Flush the hoses, boom, and nozzles

with the cleaning solution. Then add more water to completely fill the tank. Circulate the cleaning solution through the tank and hoses for at least 15 min. Flush the hoses, boom, and nozzles again with the cleaning solution, and then drain the tank.

- Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
- 4. Repeat step 2.
- 5. Rinse the tank, boom, and hoses with clean water.
- 6. If only ammonia is used as a cleaner, the rinsate solution may be applied back to the crop(s) recommended on this label. Do not exceed the maximum label use rate. If other cleaners are used, consult the cleaner label for rinsate disposal instructions. If no instructions are given, dispose of the rinsate on site or at an approved waste disposal facility.
- \* Equivalent amounts of an alternate-strength ammonia solution can be used in the cleanout procedure. Carefully read and follow the individual cleaner instructions. Consult your Ag dealer or applicator for a listing of approved cleaners.

#### Notes:

- CAUTION: Do not use chlorine bleach with ammonia because dangerous gases will form. Do not clean equipment in an enclosed area.
- Steam-cleaning aerial spray tanks is recommended prior to performing the above cleanout procedure to facilitate the removal of any caked deposits.
- When HARASS is tank mixed with other pesticides, all cleanout procedures for each product should be examined and the most rigorous procedure should be followed.
- 4. In addition to this cleanout procedure, all precleanout guidelines on subsequently applied products should be followed as per the individual product labels.

5. Where routine spraying practices would include shared equipment frequently being switched between applications of HARASS and applications of other pesticides to HARASS sensitive crops during the same spray season, it is recommended that a sprayer be dedicated to HARASS to further reduce the chance of crop injury.

#### SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

# Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets (>150-200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS! See Wind, Temperature and Humidity, and Temperature Inversions sections of this label.

# **Controlling Droplet Size – General Techniques**

- Volume use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.

 Nozzle Type – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

# **Controlling Droplet Size – Aircraft**

- Number of Nozzles Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.
- Nozzle Type Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- Boom Length The boom length should not exceed 3/4 of the wing or rotor length longer booms increase drift potential.
- Application Height Application more than 10 ft above the canopy increases the potential for spray drift.

#### **Boom Height**

Setting the boom at the lowest referenced height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

#### Wind

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS.

**Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

# Temperature and Humidity

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

#### **Temperature Inversions**

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

# **Shielded Sprayers**

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

# Air Assisted (Air Blast) Field Crop Sprayers

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring. Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration.

# RESISTANCE

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes. See the Weeds Controlled section of this label for additional information on managing herbicide resistant weed biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representatives for specific alternative cultural practices or herbicide recommendations available in your area.

# INTEGRATED PEST MANAGEMENT

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action

thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

# **PRECAUTIONS**

 Injury to or loss of desirable trees or vegetation may result from failure to observe the following:

Do not apply, drain or flush equipment on or near desirable trees or other plants or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.

Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants.

 Injury to or loss of adjacent sensitive crops and vegetation may result from failure to observe the following:

Take all necessary precautions to avoid all direct or indirect contact (such as spray drift) with non-target plants or areas.

Carefully observe all sprayer cleanup instructions both prior to and after using this product, as spray tank residue may damage crops other than wheat, barley, oat, triticale, corn, or soybeans.

 Wheat, barley, oat, triticale, corn and soybean varieties may differ in their response to various herbicides. Cheminova recommends that you first consult your state experiment station, university, or extension agent as to sensitivity to any herbicide. If no information is available, limit the initial use of HARASS to a small area.

- For wheat, barley, oat, and tritcale, under certain conditions such as heavy rainfall, prolonged cold weather (daily high temperatures less than 50 Deg. F.), or wide fluctuations in day/night temperatures prior to or soon after HARASS application, temporary discoloration and/or crop injury may occur. To reduce the potential of crop injury, tank mix HARASS with 2,4-D (ester formulations perform best see the TANK MIXTURES FOR CEREALS section of this label) and apply after the crop is in the tillering stage of growth.
- HARASS should not be applied to corn, oat, wheat, barley, triticale or soybeans that are stressed by severe weather conditions, drought (including low levels of subsoil moisture), low fertility, water-saturated soil, disease, or insect damage, as crop injury may result. Risk of injury is greatest when the cereal crop is in the 2 to 5-leaf stage. Severe winter stress, drought, disease, or insect damage following application also may result in crop injury.
- Do not apply to wheat, barley, oat or triticale crops underseeded with another crop.
- For ground applications applied to weeds when dry, dusty field conditions exist, control of weeds in wheel track areas may be reduced.

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To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to one of the following, at Cheminova's election:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

In no case shall Cheminova be liable for consequential, incidental, or special damages or losses.

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